

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Hideki KUBOTA, et al.

SERIAL NO: 10/561,838

GAU: 1625

FILED: December 22, 2005

EXAMINER:

FOR: HETEROCYCLIC METHYL SULFONE DERIVATIVE

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ Online credit card payment is being made in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ Online credit card payment is being made in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.
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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 281748US0PCT		SERIAL NO. 10/561,838	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Hideki KUBOTA, et al.			
				FILING DATE December 22, 2005		GROUP 1625	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	4,055,652	10/25/1977	Keith A. M. WALKER			
	AB	4,157,399	06/05/1979	Fritz SAUTER			
	AC	4,675,316	06/23/1987	Hak-Foon CHAN			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AD	DE 42 15 437	11/18/1993	GERMANY (with English Abstract)			X
	AE	EP 0 000 112	12/20/1978	EUROPE (with English Abstract)			X
	AF	EP 0 000 752	02/21/1979	EUROPE (with English Abstract)			X
	AG	EP 0 046 658	03/03/1982	EUROPE			
	AH	EP 0 117 485	09/05/1984	EUROPE (with English Abstract)			X
	AI	EP 0 153 657	09/04/1985	EUROPE (with English Abstract)			X
	AJ	FR 2 509 725	01/21/1983	FRANCE (with English Abstract)			X
	AK	GB 1 554 299	10/17/1979	UNITED KINGDOM			
	AL	JP 9-95444	04/08/1997	JAPAN (with English Abstract)			X
	AM	JP 62-39563	02/20/1987	JAPAN (with English Abstract)			X
	AN	WO 00/50391	08/31/2000	WIPO			
	AO	WO 01/70677 A1	09/27/2001	WIPO			
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	AR	WO 03/053912 A1	07/03/2003	WIPO			
	AS	WO 03/066592 A1	08/14/2003	WIPO			
	AT	WO 03/093251 A1	11/13/2003	WIPO			
	AU	WO 03/093252 A1	11/13/2003	WIPO			
	AV	WO 03/093253 A1	11/13/2003	WIPO			
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW	Xio-Dan CAI, et al., "Release of Excess Amyloid β Protein from a Mutant Amyloid β Protein Precursor", Science, Vol. 259, January 22, 1993, Pages 514-516					
	AX	J. E. CRANHAM, et al., "THE TOXICITY OF ORGANIC SULPHIDES TO THE EGGS AND LARVAE OF THE GLASSHOUSE RED SPIDER MITE., VII.—Benzyl Phenyl Sulphides (α -substituted)", J. Sci. Food Agric., Vol. 9, March 1958, Pages 147-150					
	AY	Jean-Paul FOURNIER, et al., "(Hydroxy-2alkyl)-et (hydroxy-3 alkyl)-phénylsulfones à activité hypolipémiante", EUR. J. MED. CHEM.-CHIM. THER., Vol. 17, No. 1, 1982, Pages 53-58 (with English Abstract)					
	AZ	Stephen A. GRAVINA, et al., "Communication Amyloid β Protein ($A\beta$) in Alzheimer's Disease Brain", THE JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 270, No. 13, March 31, 1995, Pages 7013-7016				<input checked="" type="checkbox"/> Additional References sheet(s) attached	
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	BA	WO 03/093264 A1	11/13/2003	WIPO			
	BB	WO 03/103660 A1	12/18/2003	WIPO			
	BC	WO 2004/039370 A1	05/13/2004	WIPO			
	BD	WO 2004/039800 A1	05/13/2004	WIPO			
	BE	WO 98/38156	09/03/1998	WIPO			
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	BF	I. HUSSAIN, et al., "ASP1 (BACE2) Cleaves the Amyloid Precursor Protein at the β -Secretase Site", <i>Molecular and Cellular Neuroscience</i> , Vol. 16, 2000, Pages 609-619					
	BG	Hiroyuki ISHIBASHI, et al., "Lewis Acid-Promoted Alkylations of Arenes and 1-Trimethylsilylalkynes with β -Chloro- β -thiopropionic Esters", <i>Chem. Pharm. Bull.</i> , Vol. 39, No. 5, 1991, Pages 1148-1151					
	BH	V. S. KARAVAN, et al., "Correlation of isoselectivity in halogen-seeking reaction of α -chlorodesyl aryl sulfone with sodium thiophenolate", vol. 25, no. 5, 1989, Pages 905-910 (with partial English translation)					
	BI	M. MÜHLSTÄDT, et al., "Untersuchungen zur Stereochemie der Cyclofunktionalisierung β, γ -ungesättigter Carbamidsäureester", Vol. 328, No. 3, 1986, Pages 309-313 (with English Abstract)					
	BJ	A. G. PANTELEIMONOF, et al., "Addition of nucleophilic agents to 1-aryl-2-trifluoromethylsulfonyl ethylene", <i>Organic Chemical Journal</i> , Vol. 25, No. 5, 1989, Pages 1976-1980 (with English translation)					
	BK	Jacek SKARŻEWSKI, et al., "Simple preparation of enantiomeric Michael adducts of thiophenol to chalcones: easily available new chiral building blocks", <i>Tetrahedron Asymmetry</i> , Vol. 12, no. 13, 2001, Pages 1923-1928					
	BL	Robert VASSAR, et al., " β -Secretase Cleavage of Alzheimer's Amyloid Precursor Protein by the Transmembrane Aspartic Protease BACE", <i>SCIENCE</i> , Vol. 286, October 22, 1999, Pages 735-741					
	BM	Keith A. M. WALKER, "A CONVENIENT PREPARATION OF THIOETHERS FROM ALCOHOLS", <i>Tetrahedron Letters</i> , No. 51, 1977, Pages 4475-4478					
	BN	Michael S. WOLFE, "Secretase Targets for Alzheimer's Disease: Identification and Therapeutic Potential", <i>Journal of Medicinal Chemistry</i> , Vol. 44, No. 13, June 21, 2001, Pages 4039-2060					
	BO	Michael S. WOLFE, et al., "Two transmembrane aspartates in presenilin-1 required for presenilin endoproteolysis and γ -secretase activity", <i>Letters to Nature</i> , Vol. 398, April 8, 1999, Pages 513-517					
	BP	A. H. WRAGG, et al., "The Rearrangement of Sulphinic Esters", <i>J. Chem. Soc.</i> , June 1958, Pages 3603-3605					
	BQ	Ibro TABAKOVIC, et al., "THE ALKYLATION OF COUMARIN AT C-3 OF 4-HYDROXYCOUMARIN", <i>ORGANIC PREPARATIONS AND PROCEDURES INTERNATIONAL</i> , Vol. 29, No. 2, April 1997, Pages 223-226					
	BR						<input type="checkbox"/> Additional References sheet(s) attached
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